

TOPCon 182 Solar Module 445-465W

STM-445-465/108-S5



Higher power output **23.8%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



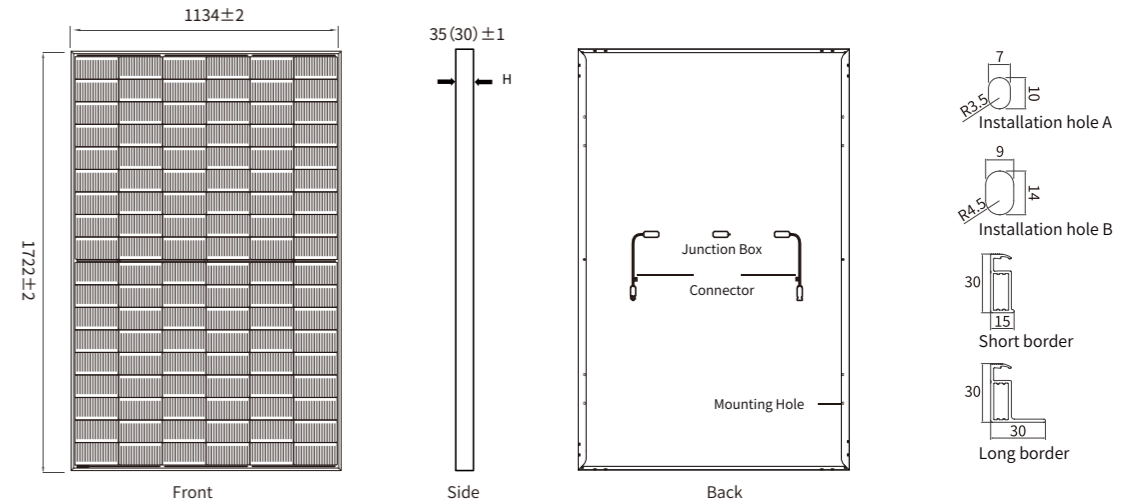
12
YEARS

12-year Warranty for Materials and Processing

30
YEARS

30-year Warranty for Extra Linear Power Output

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
GB/T 29490-2013



Remark: customized frame color and cable length available upon request

| Packaging(pcs/40HQ container) | 17.5 meter semi hanging | Dimensions | Weight |
|-------------------------------|-------------------------|--------------------|---------|
| 31/806pcs 37/962pcs | 31/1426pcs 37/1480pcs | 1722x1134x35(30)mm | 20kg±3% |

| MECHANICAL SPECIFICATION | | OPERATING PARAMETERS | |
|--|-------------------------|-------------------------------|--------------------------------|
| Cell | N-type mono-crystalline | Maximum System Voltage | 1500VDC |
| No.of cells | 108(6x18) | Operating Temperature | -40°C~+85°C |
| Cable Length | 300mm(+)/300mm(-) | Maximum Series Fuse | 25A |
| Cable Cross Section Size | 4mm ² (IEC) | Maximum StaticLoad,Front | 5400Pa(112lb/ft ²) |
| Junction Box | IP68,3 diodes | Maximum StaticLoad,Back | 2400Pa(50lb/ft ²) |
| Connector | MC4 Compatible | Safety Class | Class II |
| STC:AM1.5 1000W/m ² 25°C NOCT:AM1.5 800W/m ² 20°C 1m/s | | Test Uncertainty for Pmax ±3% | |

| Module Type | STM-445/108-S5 | | STM-450/108-S5 | | STM-455/108-S5 | | STM-460/108-S5 | | STM-465/108-S5 | |
|---------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power(Pmax/W) | 445 | 334 | 450 | 339 | 455 | 343 | 460 | 346 | 465 | 350 |
| Open Circuit Voltage(Voc/V) | 39.11 | 37.14 | 39.24 | 37.24 | 39.37 | 37.36 | 39.50 | 37.49 | 39.63 | 37.61 |
| Short Circuit Current(Isc/A) | 14.49 | 11.72 | 14.57 | 11.76 | 14.65 | 11.83 | 14.73 | 11.89 | 14.81 | 11.95 |
| Voltage at Maximum Power(Vmp/V) | 32.87 | 30.52 | 33.05 | 30.70 | 33.23 | 30.84 | 33.41 | 30.97 | 33.59 | 31.14 |
| Current at Maximum Power(Imp/A) | 13.54 | 10.96 | 13.62 | 11.04 | 13.70 | 11.11 | 13.78 | 11.17 | 13.86 | 11.24 |
| Module Efficiency(%) | 22.8 | | 23.0 | | 23.3 | | 23.6 | | 23.8 | |

| TEMPERATURE RATINGS | | ADDITIONAL VALUE | |
|---|------------|------------------|--|
| Normal Operating Cell Temperature(NOCT) | 45±2°C | | |
| Temperature Coefficient of Isc | +0.045%/°C | | |
| Temperature Coefficient of Voc | -0.275%/°C | | |
| Temperature Coefficient of Pmax | -0.350%/°C | | |

I-V CURVE(STM-445-465/108-S5)

